

1. BOSC 2017 Nominations

Self Nomination:

Yes

Nominator Information

First Name

Last Name

Nominator Title

Street Address

City

State

Postal Code

Email Address

Phone Number

Mobile Phone

Nominee Information

First Name

Paul

Last Name

Gilman

Nominee Title

Chief Sustainability Officer

Street Address

Exemption

6

Employment Information

Place of Employment/Work:

Covanta

Work Street Address

445 South St

Work City

Morristown

Work State:

NJ

Work Postal Code

07960

Work Phone Number

862-345-5204

Work Email Address

pgilman@covanta.com

Sector

Industry

Qualifications**Primary Area(s) of Expertise**

Ecology, Toxicology, Risk Assessment, Genomics, Public Health, Sustainability, Energy Technology, air and water regulation, solid waste, homeland security

Committee Preference(s)

Executive Committee

Statement of Interest

I believe the use and misuse of science in the regulatory setting is one of the most important issues in government at this time. I believe the BOSC can play an important role in assuring the ORD is equipped to do the right research in the right way to support the EPA in its mission.

Skills/qualifications related to committee preference(s) specified

I have expertise in a broad array of fields and a working knowledge of government directly applicable to the EPA.

Other Relevant Information

Former EPA Assistant Administrator for Research and Development, for Science Advisor to the EPA

CV/Resume URL**2. CV/Resume**

Please upload your CV/ Resume.

[Paul_Gilman_resume_lin_5_6_15.pdf](#)

3.**BOSC Nomination**

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4. Thank You for your Submission!

Sustainability Executive Leadership

Chief Sustainability Officer & Environmental Scientist with a career history demonstrating visionary leadership and distinguished performance in corporate, federal government and research-related, non-profit organizations. Environmental Expert & Change Leader combining tactical execution of strategic initiatives with strong leadership of staff and development of key alliances to enhance overall environmental, health, safety, quality, government affairs, compliance, community relations and bottom-line financial performance. Routinely engaged by federal agencies and the National Academy of Sciences as a subject matter expert, SME. Adept in influencing Executive and Legislative branch decision-making on regulatory, research and policy generation and addressing controversial issues with the media.

Core competencies include:

Strategic Global Sustainability Leadership | Change Management | Government Affairs | Environmental SME Thought Leader | Regulatory Compliance | Non-governmental Organization (NGO) Relations | Crisis Management Media Relations | Budget Oversight | Employee Supervision | Safety, Health & Environmental | Public Policy Community Relations | Corporate Philanthropy | KPI Metrics | Qualitative & Analytical Thinking

SELECTED ACHIEVEMENTS

- **Built a sustainability program and team at Covanta from inception and successfully led an organizational transformation** with the adoption of sustainability principles into all aspects of global operations.
- **Impacted the revenue growth of the start-up operations of Celera Genomics to \$120 million in three years** based on contributions in leadership, science, government affairs, communications and strategic alliances.
- **Career track record of influencing public policy decisions and building collaboration** across multiple stakeholders including corporations, universities, government agencies, NGO's and non-profits.
- **Launched The Clean World Initiative at Covanta that reduced Total Case Incident Rate by 50+% and emissions across 5 categories an average of 53%.**

PROFESSIONAL EXPERIENCE

COVANTA ENERGY, Morristown, NJ

April 2008 – Present

Chief Sustainability Officer, Senior Vice President

13 Direct Reports with a total team of 50 | \$17 Million Budget | Global Energy-from-Waste (EfW) Corporation

Recruited to design and direct a comprehensive sustainability program and lead the transformation of the entire business model to a sustainability-based operations platform for corporate offices and 68 facilities in North America, Europe and Asia. Maintain accountability for governmental affairs, NGO outreach, community relations, communications, R&D, operational environmental compliance, health and safety coupled with the development and advancement of environmentally superior solutions and technologies that create business opportunities and improve the overall performance and perception of both Covanta and the EfW industry. Oversee the strategic giving / corporate philanthropy program with a \$2 million annual budget. Member of the Crisis Management team.

Selected Achievements:

- **Built a sustainability team and led the launch of The Clean World Initiative that achieved positive outcomes on all three performance pillars—environment, revenue growth and communities / employees.**
- **Designed effective community and NGO outreach programs that generated support** from communities previously-resistant to the Company's expansion and a dramatic turnaround in NGO's perception of Covanta.
- **Directed a safety program that reduced Total Case Incident Rate (TCIR) from 2.13 in 2009 to 1.02 in 2014.**
- **Enhanced brand value with first sustainability report earning finalist recognition** in a Ceres competition.
- **Captured cost-effective reductions in emissions from 2009 to 2013** of Particulate matter-37%, Mercury-68%, Dioxin-57%, Lead-51% and Cadmium-50% that contributed to improved community/regulatory relations.
- **Served as a Change Agent in driving socialization of sustainability principles** into all aspects of operations as a foundation for revenue growth, in addition to environmental, regulatory and community relations benefits.
- **Gained global employee engagement** by promoting facility-level ownership of metrics and goals.
- **Developed a governmental relations strategy that yielded positive outcomes** achieved by educating the regulatory community on the Company's continuous improvement and environmental performance programs.
- **Represent the Company in media presentations addressing controversial environmental issues.**

OAK RIDGE CENTER FOR ADVANCED STUDIES, Oak Ridge, TN
Founding Director

November 2004 – March 2008

5 Direct Reports with a total team of 39 | \$2.5 Million Budget | Consortium-universities, industry, government and NGOs

Provided strategic and tactical leadership for this consortium founded to illuminate public policy issues and bring scientists, engineers and policy makers into the research and resolution processes. Founding organizations included multiple universities—Duke, Georgia Tech, NC State, UVA, UT, FSU, Vanderbilt, Virginia Tech and Oak Ridge Associated Universities, along with The Battelle Memorial Institute and Oak Ridge National Laboratory.

Selected Achievements:

- **Succeeded in developing a multi-disciplinary team** that researched sensitive and important public policies.
- **Led the launch of a STEM educational initiative** focused on building programs based on best practices for science, technology, engineering and math in Tennessee and Ohio for grades K-12.
- **Led the development of a simulation** model to test approaches for interacting with Afghanistan tribal entities for the Department of Defense, DoD.

U.S. ENVIRONMENTAL PROTECTION AGENCY, Washington, DC
Assistant Administrator for Research and Development and Science Advisor

November 2001 – October 2004

12 Direct Reports with a total team of 2000 | \$600 Million Budget | Federal Government Agency

Directed a \$600 million research program designed to protect human health and the environment with implementation through 13 National Laboratories, Centers, and over 700 extramural research grant recipients. Ensured that the highest quality science was integrated into programs and decision-making. Served as a Change Agent for multiple initiatives.

Selected Achievements:

- **Championed the introduction of computational tools for biology** and the creation of the Computational Toxicology Center that is recognized as a model of innovation, change and improvement for life sciences research.
- **Served as a Change Agent in successfully achieving higher levels of collaboration** with external researchers in the private sector and other federal agencies.
- **Increased credibility of the EPA by** implementing a peer review process for research planning and analysis.
- **Stood up a Homeland Security Research Group in 22 days** that addressed post 9/11 drinking water protection and decontamination related to biological and chemical terrorist acts.
- **Responded to considerable pressure to revisit health impact associated with the collapse of the World Trade Center** by creating a research panel that addressed both real and perceived concerns from a scientific perspective.
- **Launched collaborative research between the EPA and FDA** based on EPA's Computational Toxicology Program to incorporate genomics into both Agencies' regulatory missions.

CELERA GENOMICS, Rockville, MD
Director of Policy Planning | served as COO

October 1998 – October 2001

5 Direct Reports with a total team of 20 | \$3 Million Budget | Bioscience Corporation

Recruited by the Celera President as a founding member of this start-up to provide strategic leadership for corporate, academic, product and intellectual property development, along with governmental affairs and communications related to human genomes. Led collaboration with Federal agencies, the academic market, and internal research teams.

Selected Achievements:

- **Celera sequenced the human genome and developed the model for decoding genomes of the fruit fly and rat** with their delivery to academics and pharmaceutical companies.
- **Managed media and investor relations during public offerings**, raising \$820 million in the second offering alone.
- **Key contributor to revenue growth to \$120 million in three years** with staff expansion from 40 to 1,100 employees.

COMMISSION ON LIFE SCIENCES AND THE BOARD ON AGRICULTURE, NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMY OF SCIENCES, Washington, DC
Executive Director

March 1993 – September 1998

8 Direct Reports with a total team of 55 | \$10 Million Budget | Private Non-Profit Organization

Managed all scientific, financial, and administrative operations of the Commission and Board, two major units of the National Research Council, the operating arm of the National Academy of Sciences that was chartered by the U. S. Congress to provide independent expert advice to the government in matters of science, engineering, and related public policy. The Commission on Life Sciences focused on risks to health and the environment, protection and management of biotic resources, practical application of biology including biotechnology. The Board on Agriculture addressed science and policy issues confronting the agricultural, food, and environmental systems.

Selected Achievements:

- **Addressed a number of difficult and controversial issues including** the development of DNA technologies and the social and moral issues related to their use.
- **Expanded area of influence beyond the Executive Branch to the U.S. Congress;** instrumental in gaining Congressional support in directing the EPA to consult with the Commission to develop **a multi-year, ground-breaking research program to study the impact of combustion-related particulate matter.**

Additional Relevant Experience**EXECUTIVE OFFICE OF THE PRESIDENT, Washington, DC**

September 1992 – January 1993

Associate Director of the Office of Management and Budget (OMB)

Principal advisor to the Director of OMB responsible for the Departments of Agriculture, Energy, Housing and Urban Development and Interior, as well as the National Science Foundation, National Aeronautics and Space Administration, Corps of Engineers, and the Environmental Protection Agency. Coordinated regulatory and legislative activities between agencies and within the Executive Office of the President, along with Executive Branch interaction with Congress.

Selected Achievements:

- **Demonstrated crisis management expertise managing Hurricane Andrew** impact in Florida and agricultural grants to restore the farming industry.

U.S. DEPARTMENT OF ENERGY, Washington, DC

September 1991 – September 1992

Executive Assistant to the Secretary

Assisted the Secretary in oversight of the Department's defense, energy, environment, and research activities. Participated in key policy deliberations and implementation; monitored program operations and management; served as a liaison to the White House, other Federal Agencies, Congress and private organizations.

Selected Achievements:

- **Directed the Secretary's initiative to redefine the missions of the National Laboratories** to include enhancing competitiveness of U.S. industry through technology transfer and collaborative research activities between the Department's Labs, environmental NGO's, industry and universities.

SENATOR PETE V. DOMENICI (R-NM), Washington, DC

September 1985 – September 1991

Chief of Staff

Recruited to re-join the Senator's staff after previously serving as Legislative Assistant participating in the investigation for the Three Mile Island Nuclear Power Plant accident. Led all aspects of the Senator's office and operations in Washington, D.C. and New Mexico. Directed legislative, administrative, correspondence, public relations, and constituent service activities with a staff of 40 and an annual budget of \$1.2 million. Developed and implemented legislative goals, public policy positions, and operating plans with legislative accountability for energy, science and technology. Project managed strategy, finance and media relations for 1990 reelection campaign.

Selected Achievements:

- **Coordinated the Congressional creation of a federal program** for the mapping/sequencing of the human genome.
- **Led the passage of the National Competitiveness Technology Transfer Act of 1989** providing new mechanisms for industry and university collaboration with National Laboratories and the **High Performance Computing Act of 1991** expanding research and high-performance computing and its utilization in education and industry.

SENATE COMMITTEE ON ENERGY AND NATURAL RESOURCES, Professional Staff, Jan 1981 – August 1985
SUBCOMMITTEE ON ENERGY RESEARCH AND DEVELOPMENT, Staff Director, Washington, DC

Directed legislative and oversight activity for the Department of Energy's basic research in physical and life sciences, energy technology, environmental, and policy for the commercialization of energy technology. Drafted the Senate version of the Nuclear Waste Policy Act of 1982 providing for the disposal of spent fuel from commercial nuclear power plants.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, DC

Congressional Science Fellowship

September 1978 – August 1979

Selected, in a highly competitive process, to participate in a year-long program to provide scientific expertise to Congress.

EDUCATION

Doctor of Philosophy, Ecology and Evolutionary Biology, Johns Hopkins University, Baltimore, MD, 1979

Master of Arts, Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD, 1975

Bachelor of Arts, Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD, 1974

Biology, Kenyon College, Gambier, OH, 1970-1972

PROFESSIONAL DEVELOPMENT

Project Management, Six Sigma

PROFESSIONAL ACTIVITIES & BOARD MEMBERSHIPS

Board on Environmental Studies and Toxicology, National Research Council of the National Academies of Science and Engineering, 2005-2008

JMAR Technologies, Inc., Member, Board of Directors, 2005-2008

Senior Review Panel on Future Planning for the Radiation Effects Research Foundation, Hiroshima, Japan, U.S. Co-chair, 2006-2007

Blue Ribbon Study on the Civilian Applications Committee's Use of Intelligence Community Capabilities, Member of the Independent Study Group, for the Deputy Director of National Intelligence, 2005

Board on Environmental Studies and Toxicology, National Research Council of the National Academies of Science and Engineering, 1999-2002

Triton Thalassic Technologies Inc., Member, Board of Directors, 1997-2002

Department of Energy Laboratory Operation Board, External Member, 1995-2002

University of Virginia, Dean's Advisory Council for the School of Engineering, 1999-2000

American Association for the Advancement of Science, Committee on Science Engineering and Public Policy, 1994-2000

Annapolis Center, Board of Directors (Vice Chairman), 1995-1997

Visiting Committee, Department of Applied Sciences, Brookhaven National Laboratory, 1988-1990

Gas Research Institute, Scientific Advisory Committee (Chair of the Subcommittee on Environment, Health, and Safety), 1984-1990

RECENT PUBLICATIONS

Sustainability Concepts in Decision-Making: Tools and Approaches for the US Environmental Protection Agency. Committee on Scientific Tools and Approaches for Sustainability. National Research Council. National Academy Press; 2014

Rethinking the Components, Coordination, and Management of the U.S. Environmental Protection Agency Laboratories. Committee on Strengthening the US Environmental Protection Agency Laboratory Enterprise: Phase 1--Priority Needs, Guiding Principles, and Overall Goals. National Research Council. National Academy Press; 2014

Science for Environmental Protection. Committee on Science for EPA's Future. National Research Council, National Academy Press; 2012

Exposure Science in the 21st Century: A Vision and a Strategy. Committee on Human and Environmental Exposure Science in the 21st Century. National Research Council. National Academy Press; 2012

Sustainability and the U.S. EPA. Committee on Incorporating Sustainability in the U.S. Environmental Protection Agency. National Research Council. National Academy Press; 2011

The Use of Title 42 Authority at the U.S. Environmental Protection Agency: A Letter Report. Committee to Review EPA's Title 42 Hiring Authority for Highly Qualified Scientists and Engineers. National Research Council. National Academy Press; 2010

Evaluating Research Efficiency in the U.S. Environmental Protection Agency. Committee on Evaluating the Efficiency of Research and Development Programs at the U.S. Environmental Protection Agency. National Research Council. National Academy Press; 2008

Phthalates and Cumulative Risk Assessment: the tasks ahead. Committee on the Health Risks of Phthalates. National Research Council. National Academy Press; 2008

May 2008: "Actionable Capability for Social and Economic Systems" Final Report to the Defense Advanced Research Projects Agency (see http://www.osti.gov/bridge/product.biblio.jsp?osti_id=933058)

"Science, Policy, and Politics: Comparing and Contrasting Issues in Energy and the Environment," Social Research (Volume 73, No.3 Fall 2006)

Letter to the Editor, Risk Analysis (Volume 26, No. 6, 2006)

"A Conflict-of-Interest Policy for Epidemiology." Epidemiology. 17(3):250-251, May 2006

Regional Assessment of Climate Change Vulnerabilities: Workshop Proceedings. Oak Ridge Center for Advanced Studies. November 2005. ISBN 0-9776586-0-0

Statement for the U.S. Senate Committee on Environment and Public Works: Hearing on the role of science in environmental policymaking. September 28, 2005

"Science and Clean Air: A National Perspective," in Cleaning America's Air: Progress and Challenges edited by David C. Brill. Baker Center Publications, The University of Tennessee; 2005